

**SYSTEM AND METHOD OF DETERMINING A CENTER OF MASS OF
AN IMAGING SUBJECT FOR X-RAY FLUX CONTROL**

ABSTRACT

5 A system and method of diagnostic imaging is provided that includes positioning
a subject in a scanning bay, comparing a center of mass of the subject to a reference
point, and repositioning the subject in the scanning bay to reduce a difference in position
between the center of mass of the subject and the reference point. The present invention
automatically selects a proper attenuation filter configuration, corrects patient centering,
10 and corrects noise prediction errors, thereby increasing dose efficiency and tube output.